

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P324551

Luminaire Tested: **GAN-SA7A-760-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24434 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

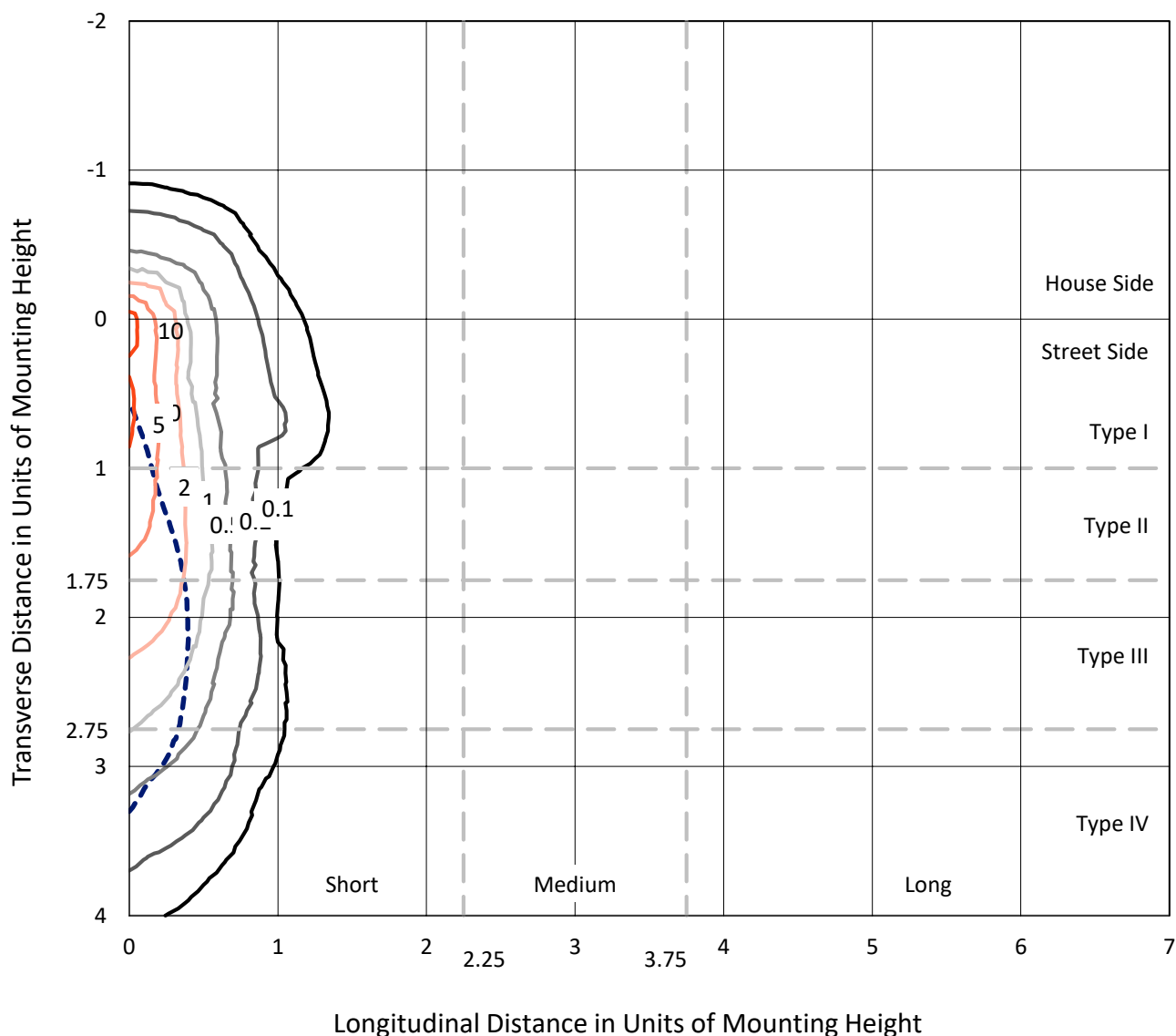
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

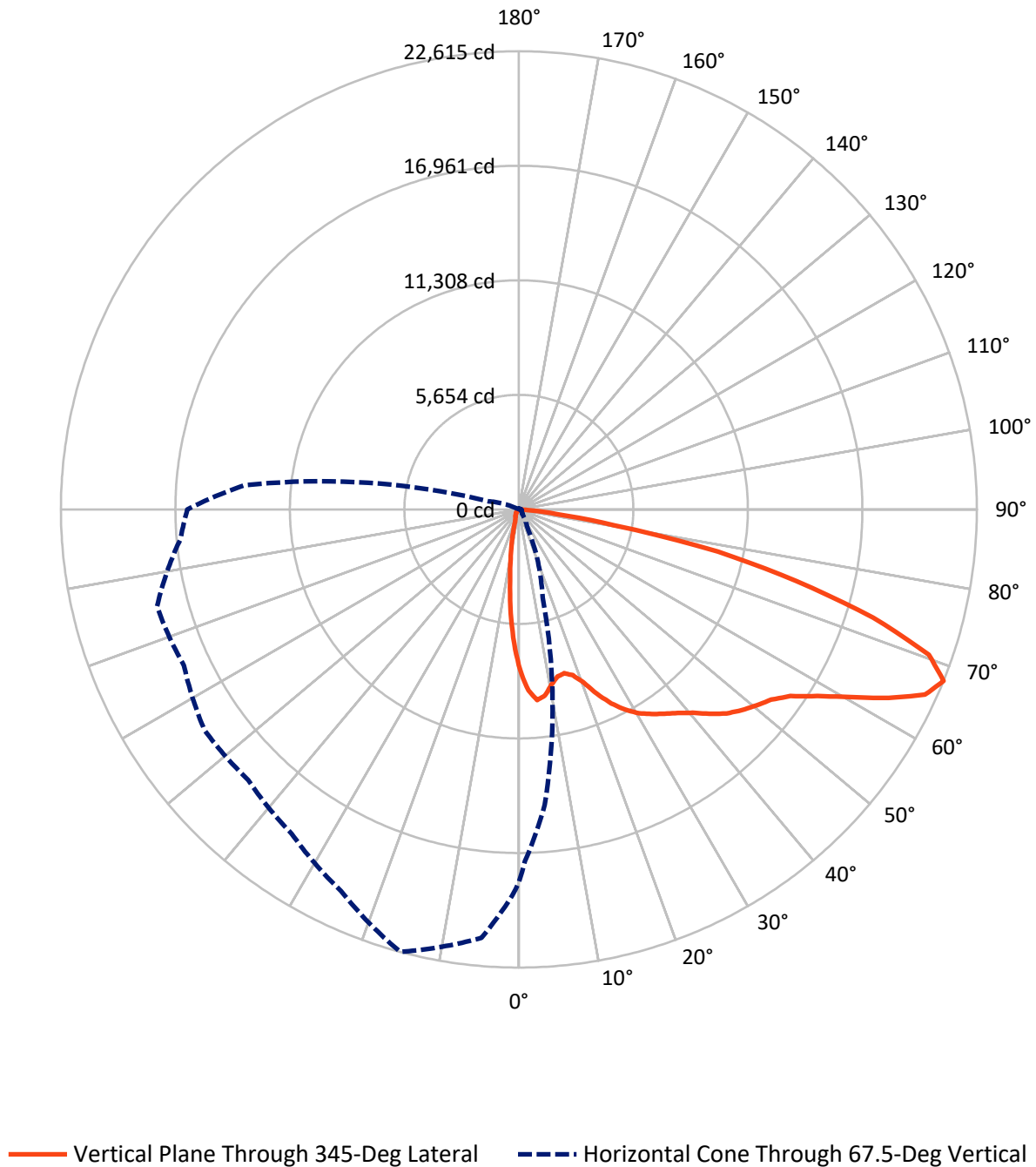
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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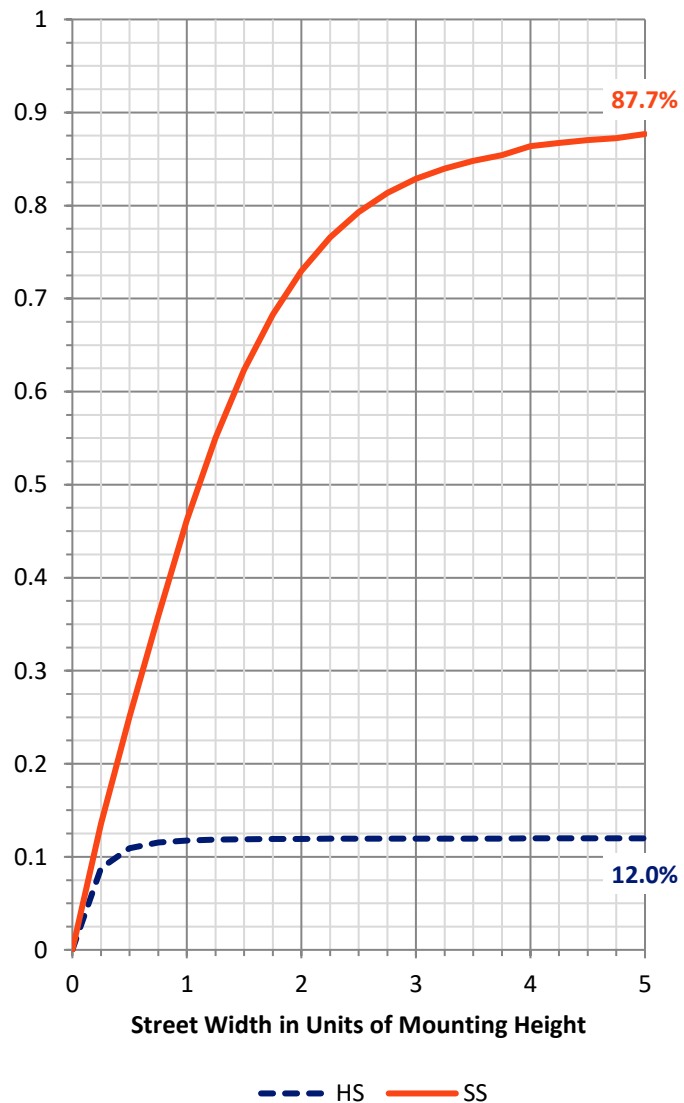
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2957.3	0.0	2957.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	21476.7	0.0	21476.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	24434.0	0.0	24434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.9	2.5
10°-20°	1215.9	5.0
20°-30°	1726.6	7.1
30°-40°	2550.3	10.4
40°-50°	3678.1	15.1
50°-60°	5163.3	21.1
60°-70°	6018.9	24.6
70°-80°	3077.0	12.6
80°-90°	393.0	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24434.0	100.0
0°-180°	24434.0	100.0

Coefficient of Utilization



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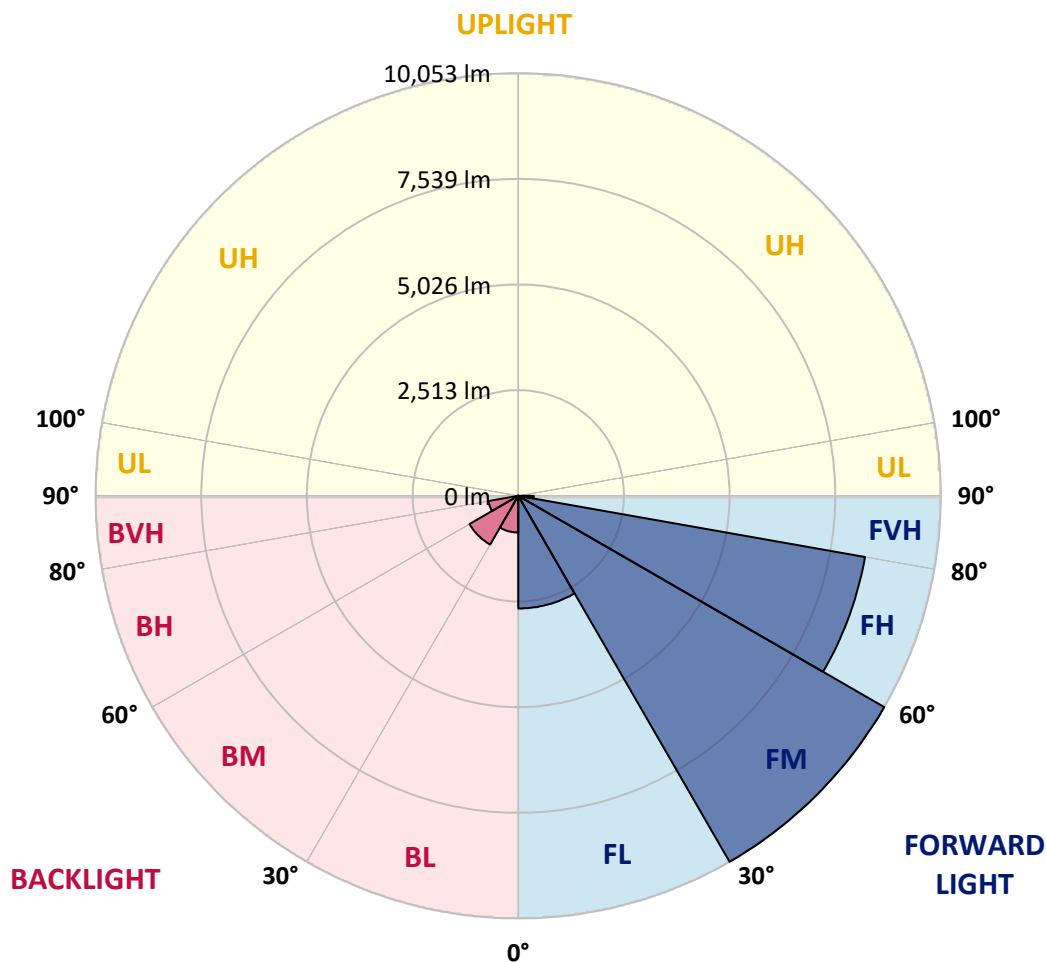
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2679.9	11.0			
FM	(30°-60°)	10052.5	41.1			
FH	(60°-80°)	8375.1	34.3			G4/12000
FVH	(80°-90°)	369.1	1.5			G3/500
BL	(0°-30°)	873.5	3.6	B2/1000		
BM	(30°-60°)	1339.2	5.5	B2/2500		
BH	(60°-80°)	720.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	23.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3
2.5°	8715.2	8648.1	8574.0	8332.1	8107.5	7850.5	7641.0	7495.2	7312.3	7075.0	7014.8
5°	8652.7	8580.9	8348.3	7810.0	7338.9	6880.5	6438.3	6179.0	5857.2	5530.8	5449.8
7.5°	8024.2	7948.9	7613.2	6875.9	6241.5	5579.4	5005.3	4649.9	4286.4	3987.8	3829.2
10°	7370.1	7287.9	6910.6	6015.8	5234.5	4636.0	4214.6	3875.5	3531.7	3212.2	2957.5
12.5°	6919.8	6812.2	6402.4	5388.4	4707.8	4301.5	3907.9	3501.6	3036.3	2693.6	2413.5
15°	6731.2	6608.5	6175.5	5146.5	4521.4	4044.5	3531.7	3032.8	2487.6	2095.2	1838.2
17.5°	6877.0	6717.3	6253.1	5130.3	4287.6	3638.2	2990.0	2404.2	1812.7	1415.7	1232.8
20°	7372.5	7162.9	6573.7	5125.6	4004.0	3155.5	2333.6	1671.5	1194.6	960.8	864.7
22.5°	8152.6	7876.0	7034.4	5162.7	3711.1	2648.5	1685.4	1135.6	897.1	775.6	718.8
25°	9094.9	8774.2	7697.7	5293.5	3454.1	2155.4	1224.7	897.1	757.0	667.9	620.4
27.5°	9990.8	9730.4	8535.8	5482.2	3255.0	1757.2	994.3	760.5	647.1	588.0	549.8
30°	10885.6	10558.0	9395.9	5706.7	3015.4	1487.5	874.0	693.4	579.9	517.4	493.1
32.5°	11536.2	11264.1	10069.5	5868.8	2759.6	1311.5	781.3	634.3	541.7	478.1	442.2
35°	12301.3	11993.4	10647.2	5904.7	2595.2	1200.4	702.6	570.7	470.0	413.2	375.0
37.5°	13127.8	12744.7	11313.9	5826.0	2466.7	1146.0	643.6	541.7	438.7	380.8	340.3
40°	14042.3	13609.3	11954.0	5712.5	2340.6	1127.5	598.5	519.7	414.4	355.4	313.7
42.5°	15005.4	14494.9	12508.5	5593.3	2260.7	1063.8	593.8	497.7	395.9	332.2	290.5
45°	15814.5	15297.1	13078.0	5553.9	2204.0	994.3	613.5	482.7	383.1	313.7	273.2
47.5°	16459.2	15969.6	13661.4	5641.9	2171.6	930.7	559.1	502.4	376.2	297.5	258.1
50°	17229.0	16674.5	14483.3	5904.7	2124.1	867.0	505.9	575.3	376.2	287.1	245.4
52.5°	18194.4	17645.7	15400.1	6312.1	2029.2	779.0	454.9	576.5	379.7	273.2	229.2
55°	19408.7	19010.5	16709.3	6758.9	1877.5	649.4	393.6	495.4	365.8	247.7	214.1
57.5°	20573.2	20247.9	17902.7	7064.5	1675.0	507.0	342.6	399.4	334.5	217.6	191.0
59°	20891.5	20536.1	18340.3	7078.4	1523.3	442.2	317.2	329.9	327.6	203.7	177.1
60°	20891.5	20514.1	18466.4	7004.3	1413.4	406.3	301.0	294.0	341.5	194.5	169.0
62.5°	20513.0	19982.8	18056.7	6503.1	1152.9	346.1	262.8	243.1	306.8	174.8	149.3
65°	19725.9	18953.8	16660.7	5596.8	1027.9	317.2	226.9	199.1	213.0	154.0	130.8
67.5°	18413.2	17366.8	14647.7	4521.4	978.1	309.1	195.6	169.0	160.9	132.0	114.6
70°	16101.6	14940.5	12204.1	3554.8	935.3	305.6	164.4	142.4	129.6	111.1	97.2
72.5°	11719.1	10508.3	8664.3	2779.3	909.8	312.5	132.0	119.2	106.5	86.8	75.2
75°	6703.4	5910.5	4869.8	1835.9	775.6	298.6	101.9	99.5	76.4	62.5	52.1
77.5°	3463.4	3358.1	2918.2	704.9	371.6	130.8	67.1	57.9	45.1	38.2	31.3
80°	1494.4	1478.2	1279.1	203.7	98.4	72.9	38.2	24.3	20.8	16.2	12.7
82.5°	516.3	516.3	454.9	68.3	44.0	35.9	4.6	0.0	0.0	0.0	0.0
85°	104.2	116.9	82.2	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3
2.5°	6941.8	6801.8	6792.5	6704.5	6594.6	6544.8	6515.9	6566.8	6629.3	6636.2	6730.0
5°	5388.4	5241.4	5302.7	5146.5	5177.7	5146.5	5095.5	5104.8	5132.6	5045.8	5153.4
7.5°	3784.0	3672.9	3743.5	3701.9	3757.4	3779.4	3748.2	3701.9	3565.3	3549.1	3642.8
10°	2852.2	2726.0	2650.8	2572.1	2589.4	2625.3	2613.8	2580.2	2493.4	2498.0	2588.3
12.5°	2292.0	2150.7	2001.4	1808.1	1760.6	1787.3	1760.6	1741.0	1657.6	1664.6	1744.4
15°	1738.6	1622.9	1466.6	1311.5	1227.0	1235.1	1161.0	1108.9	1056.8	994.3	1043.0
17.5°	1173.8	1103.1	1056.8	1010.5	909.8	886.7	792.9	692.2	652.9	623.9	644.8
20°	831.1	792.9	774.4	772.1	714.2	685.3	593.8	531.3	511.6	505.9	518.6
22.5°	694.5	666.8	640.1	625.1	596.1	562.6	493.1	461.9	448.0	441.0	450.3
25°	604.2	583.4	555.6	530.2	518.6	482.7	432.9	409.8	400.5	393.6	398.2
27.5°	537.1	518.6	486.2	470.0	460.7	429.5	386.6	368.1	360.0	357.7	356.5
30°	483.9	466.5	436.4	417.9	401.7	373.9	348.4	329.9	321.8	319.5	317.2
32.5°	430.6	416.7	397.0	378.5	361.2	335.7	313.7	298.6	285.9	283.6	282.4
35°	363.5	349.6	339.2	338.0	321.8	297.5	281.3	261.6	251.2	247.7	248.9
37.5°	323.0	304.4	281.3	289.4	284.8	267.4	245.4	225.7	215.3	213.0	213.0
40°	297.5	277.8	251.2	237.3	251.2	247.7	213.0	193.3	182.9	181.7	179.4
42.5°	273.2	253.5	223.4	200.3	207.2	217.6	184.1	165.5	155.1	152.8	149.3
45°	255.8	235.0	201.4	174.8	160.9	182.9	157.4	134.3	128.5	123.9	121.5
47.5°	239.6	219.9	181.7	151.6	128.5	132.0	126.2	110.0	103.0	98.4	97.2
50°	225.7	204.9	164.4	129.6	106.5	97.2	101.9	86.8	81.0	76.4	74.1
52.5°	209.5	189.8	145.9	112.3	89.1	76.4	77.6	68.3	62.5	59.0	57.9
55°	196.8	177.1	130.8	98.4	78.7	62.5	55.6	53.2	49.8	47.5	46.3
57.5°	179.4	160.9	115.8	83.3	67.1	50.9	42.8	42.8	41.7	39.4	38.2
59°	169.0	152.8	106.5	75.2	61.4	44.0	38.2	39.4	38.2	35.9	34.7
60°	160.9	145.9	99.5	69.5	57.9	40.5	34.7	37.0	35.9	33.6	32.4
62.5°	142.4	132.0	85.7	57.9	50.9	32.4	28.9	31.3	31.3	30.1	28.9
65°	125.0	113.4	72.9	48.6	47.5	27.8	23.2	27.8	28.9	26.6	24.3
67.5°	108.8	97.2	63.7	39.4	44.0	22.0	17.4	23.2	31.3	24.3	22.0
70°	92.6	81.0	49.8	31.3	46.3	15.0	13.9	20.8	37.0	26.6	20.8
72.5°	71.8	62.5	34.7	23.2	49.8	10.4	10.4	17.4	41.7	28.9	19.7
75°	49.8	40.5	20.8	13.9	40.5	6.9	6.9	16.2	39.4	26.6	18.5
77.5°	28.9	22.0	6.9	1.2	20.8	0.0	1.2	11.6	27.8	16.2	8.1
80°	10.4	4.6	0.0	0.0	12.7	0.0	0.0	0.0	2.3	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3
2.5°	6754.3	6910.6	7050.7	7262.5	7513.7	7803.1	8051.9	8319.3	8570.5	8674.7	8746.5
5°	5175.4	5368.7	5594.5	5905.8	6320.2	6830.7	7308.8	7849.4	8430.5	8721.0	8994.2
7.5°	3659.0	3855.8	4135.9	4467.0	4968.2	5575.9	6201.0	6947.6	7734.8	8194.3	8646.9
10°	2631.1	2873.0	3134.7	3587.3	4096.6	4673.0	5316.6	6150.1	7027.5	7536.8	8082.0
12.5°	1790.7	2066.2	2462.1	2969.1	3567.6	4132.5	4691.6	5486.8	6505.4	7010.1	7594.7
15°	1074.2	1227.0	1646.0	2232.9	2966.8	3670.6	4282.9	5080.5	6166.3	6784.4	7392.1
17.5°	662.1	732.7	960.8	1442.3	2213.2	3103.4	3942.6	4942.7	6214.9	6967.3	7617.9
20°	527.8	555.6	628.6	852.0	1466.6	2478.3	3559.5	4915.0	6611.9	7538.0	8236.0
22.5°	458.4	485.0	533.6	619.3	922.6	1855.6	3196.0	4940.4	7181.5	8393.4	9208.3
25°	404.0	427.1	473.4	544.0	676.0	1306.9	2807.1	5053.9	7923.4	9454.9	10320.7
27.5°	361.2	380.8	423.7	488.5	579.9	912.2	2366.0	5191.6	8803.2	10540.7	11394.9
30°	321.8	339.2	377.4	437.6	503.5	701.5	1882.2	5285.4	9684.1	11394.9	12162.4
32.5°	288.2	301.0	335.7	386.6	437.6	559.1	1430.7	5270.3	10338.1	12105.7	12714.6
35°	253.5	266.2	296.3	340.3	380.8	461.9	1125.1	4989.1	10907.6	12843.0	13346.6
37.5°	215.3	231.5	260.4	299.8	327.6	406.3	909.8	4649.9	11485.2	13685.7	14051.5
40°	182.9	199.1	224.6	267.4	284.8	385.5	699.2	4236.6	12134.6	14628.0	14824.8
42.5°	151.6	166.7	193.3	230.4	268.6	332.2	517.4	3764.4	12758.5	15433.6	15529.7
45°	122.7	137.7	165.5	202.6	287.1	275.5	400.5	3258.5	13262.1	16103.9	16135.1
47.5°	97.2	111.1	140.1	191.0	267.4	219.9	285.9	2861.5	13684.6	16627.1	16544.9
50°	75.2	86.8	116.9	218.8	233.8	181.7	216.5	2729.5	14063.1	16951.2	16738.2
52.5°	59.0	69.5	96.1	204.9	181.7	150.5	181.7	2853.4	14581.7	17219.7	16847.0
55°	47.5	57.9	75.2	116.9	123.9	127.3	155.1	2969.1	15476.5	17849.5	17489.5
57.5°	39.4	49.8	61.4	82.2	93.8	107.7	137.7	2981.9	16531.0	18895.9	18555.6
59°	35.9	45.1	55.6	72.9	82.2	98.4	129.6	2912.4	16902.6	19276.7	19106.6
60°	33.6	42.8	52.1	67.1	76.4	92.6	125.0	2846.4	16918.8	19262.8	19341.5
62.5°	28.9	38.2	46.3	56.7	64.8	78.7	112.3	2602.2	16233.5	18632.0	19200.3
65°	25.5	33.6	41.7	48.6	55.6	70.6	101.9	2156.5	15063.2	17614.5	18233.8
67.5°	23.2	28.9	38.2	42.8	49.8	62.5	90.3	1537.2	13601.2	16370.1	16771.8
70°	20.8	27.8	34.7	39.4	45.1	54.4	77.6	883.2	11485.2	14548.1	14834.0
72.5°	19.7	26.6	31.3	37.0	40.5	48.6	70.6	415.6	8409.6	11654.2	12400.9
75°	17.4	24.3	28.9	34.7	38.2	44.0	60.2	199.1	5593.3	8433.9	9282.4
77.5°	10.4	19.7	26.6	31.3	33.6	38.2	49.8	114.6	3569.9	5837.5	6875.9
80°	0.0	6.9	19.7	26.6	28.9	32.4	38.2	90.3	1910.0	3334.9	4002.8
82.5°	0.0	0.0	13.9	20.8	19.7	22.0	28.9	56.7	861.2	2179.7	2456.3
85°	0.0	0.0	4.6	16.2	13.9	10.4	19.7	19.7	188.7	1103.1	1376.3
87.5°	0.0	0.0	0.0	1.2	6.9	4.6	8.1	2.3	1.2	82.2	333.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324551

CATALOG NUMBER: GAN-SA7A-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3	7959.3
2.5°	8997.7	9083.3	9228.0	9296.3	9262.7	9120.4	8950.2	8776.6	8674.7	8715.2
5°	9551.0	9992.0	10246.7	10331.2	10189.9	9870.4	9452.6	8901.6	8706.0	8652.7
7.5°	9551.0	10380.9	10906.5	10999.1	10684.2	10058.0	9274.3	8414.2	8128.3	8024.2
10°	9215.3	10345.0	11077.8	11224.8	10784.9	9848.5	8798.6	7817.0	7477.8	7370.1
12.5°	8836.8	10053.3	10825.4	11028.0	10666.8	9640.1	8468.7	7413.0	7013.6	6919.8
15°	8604.1	9694.5	10333.5	10480.5	10327.7	9518.6	8389.9	7291.4	6821.5	6731.2
17.5°	8687.4	9416.7	9647.0	9732.7	9835.7	9475.7	8604.1	7557.7	6962.7	6877.0
20°	9001.1	9123.8	9004.6	9112.3	9390.1	9517.4	9114.6	8201.3	7487.0	7372.5
22.5°	9533.6	8972.2	8637.7	8680.5	9018.5	9655.1	9894.8	9120.4	8296.2	8152.6
25°	10154.0	9094.9	8433.9	8395.7	8743.0	9836.9	10607.8	10120.5	9253.5	9094.9
27.5°	10934.2	9370.4	8392.3	8354.1	8646.9	10007.0	11200.5	11109.0	10261.7	9990.8
30°	11536.2	9641.3	8516.1	8428.1	8743.0	10125.1	11676.2	11948.3	11065.0	10885.6
32.5°	11967.9	9960.7	8717.5	8590.2	9013.9	10328.8	12043.2	12716.9	11808.2	11536.2
35°	12296.7	10308.0	9042.8	8833.3	9386.6	10637.9	12387.0	13535.3	12598.8	12301.3
37.5°	12604.6	10795.3	9551.0	9300.9	9971.2	11135.7	12750.4	14463.6	13483.2	13127.8
40°	13034.0	11347.5	10334.6	10112.4	10953.9	11814.0	13204.2	15431.3	14489.1	14042.3
42.5°	13463.5	11940.2	11136.8	11197.0	12179.8	12638.2	13789.9	16454.6	15482.3	15005.4
45°	13855.9	12551.3	12279.3	12557.1	13317.6	13542.2	14372.2	17046.1	16275.2	15814.5
47.5°	14205.5	13315.3	13414.9	14154.6	14611.8	14360.6	14807.4	17556.6	16865.5	16459.2
50°	14611.8	14303.9	14911.6	15958.0	16101.6	15101.4	15203.3	18160.8	17555.4	17229.0
52.5°	15056.3	15345.7	16569.2	17491.8	17445.5	15905.9	15601.5	18838.0	18501.2	18194.4
55°	15561.0	16187.2	18028.9	18927.1	18887.8	16804.2	16261.3	19674.9	19686.5	19408.7
57.5°	16309.9	16911.8	19019.7	20088.2	20154.1	17841.4	17379.5	20612.5	20758.4	20573.2
59°	16847.0	17381.8	19412.2	20573.2	20841.7	18643.5	18196.7	21156.6	21060.5	20891.5
60°	17245.2	17680.5	19606.6	20826.7	21241.1	19187.6	18799.8	21476.1	21096.4	20891.5
62.5°	18230.3	18331.0	19957.4	21113.8	21700.6	20396.1	20496.8	22020.1	20847.5	20513.0
65°	18689.8	18741.9	19952.7	20599.8	21256.1	21337.2	22036.3	22036.3	20239.8	19725.9
67.5°	18497.7	18246.5	18963.0	18895.9	19551.1	20778.1	22615.1	21228.4	19077.6	18413.2
70°	16935.0	15968.4	15650.1	15679.0	16180.3	18072.9	21469.1	18850.7	16878.3	16101.6
72.5°	14090.9	11772.3	10986.3	11883.4	12014.2	13889.5	18296.3	14196.2	12447.2	11719.1
75°	11333.6	8298.5	7020.6	7967.4	8189.7	10164.5	14153.4	8841.4	7270.6	6703.4
77.5°	8142.2	5956.8	5037.7	4971.7	5258.8	6446.4	10042.9	4449.6	3711.1	3463.4
80°	4625.6	3920.6	4221.6	3983.1	4127.8	4030.6	4771.4	1951.6	1598.6	1494.4
82.5°	2792.0	2317.4	2509.6	2089.4	2643.8	2302.4	1838.2	625.1	542.9	516.3
85°	1816.2	1266.4	659.8	442.2	911.0	1471.2	410.9	170.2	130.8	104.2
87.5°	626.2	323.0	32.4	13.9	97.2	274.3	15.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)